The documentation and process conversion measures necessary to comply with this revision shall be completed by 5 November 2002.

INCH-POUND

MIL-PRF-19500/684
AMENDMENT 2
5 August 2002
SUPERSEDING
AMENDMENT 1
7 June 2001

PERFORMANCE SPECIFICATION

SEMICONDUCTOR DEVICE, TRANSISTOR, FIELD EFFECT, SILICON, N-CHANNEL,
RADIATION HARDENED (TOTAL DOSE AND SINGLE EVENT EFFECTS)
TYPES 2N7472U2, 2N7473U2 AND 2N7474U2
JANTXVR AND JANSR

This amendment forms a part of MIL-PRF-19500/684, dated 6 October 2000 and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

1.2, delete "SMD-2" and subs titute "U2".

* 1.3, Column P_T (1) T_A = 25°C, delete "(1)".

PAGE 3

Symbol	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
BL	0.685	0.695	17.40	17.65
BW	0.520	0.530	13.21	13.46
CH	---	0.142	---	3.60
LH	0.010	0.020	0.26	0.50
LW1	0.435	0.445	11.05	11.30
LW2	0.135	0.145	3.43	3.68
LL1	0.470	0.480	11.94	12.19
LL2	0.152	0.162	3.86	4.12
LS1	0.240 BSC		6.10 BSC	
LS2	0.120 BSC		3.05 BSC	
Q1	0.035	---	0.89	---
Q2	0.050	---	1.27	---
TERM 1	Drain			
TERM 2	Gate			
TERM 3	Source			

FIGURE 1, title, delete "SMD2" and substitute "U2 (TO-276AC)".

PAGE 7

* 4.5.2.b, delete "16.67 A" and substitute "13.88 A" (this corrects a change from amendment 1).

4.5.2.d, delete "15 V" and substitute "12 V".

PAGE 8

TABLE I, subgroup 2, thermal impedance, min limits column, delete "0.37" and substitute "0.38".

PAGE 9

TABLE I, subgroup 3, static drain to source "ON"-state resistance, 2N7472U2, max limits column, delete "0.026" and substitute "0.028".

PAGE 10

TABLE I, subgroup 7, reverse recovery time, 2N7474U2, max limits column, delete "775" and substitute "560".

PAGE 13

* TABLE III, group D inspection, subgroup 2, static drain to source on-state voltage, conditions column, delete "$I_D = I_{D2}$".

* TABLE III, group D inspection, subgroup 2, static drain to source on-state voltage, 2N7472U2, conditions column, add "I_D = 45 A".

* TABLE III, group D inspection, subgroup 2, static drain to source on-state voltage, 2N7473U2, conditions column, add " I_D = 35 A".

* TABLE III, group D inspection, subgroup 2, static drain to source on-state voltage, 2N7473U2, limits column, delete "1.326" and substitute "1.365" (2 places).

* TABLE III, group D inspection, subgroup 2, static drain to source on-state voltage, 2N7474U2, conditions column, add " I_D = 26 A".

* TABLE III, group D inspection, subgroup 2, static drain to source on-state voltage, 2N7474U2, limits column, delete "1.708" and substitute "1.586" (2 places).

* TABLE III, group D inspection, subgroup 2, forward voltage source drain diode, conditions column, delete "$I_D = I_{D2}$" and substitute "I_D = 45 A".

PAGE 14

FIGURE 3, delete and substitute:

"

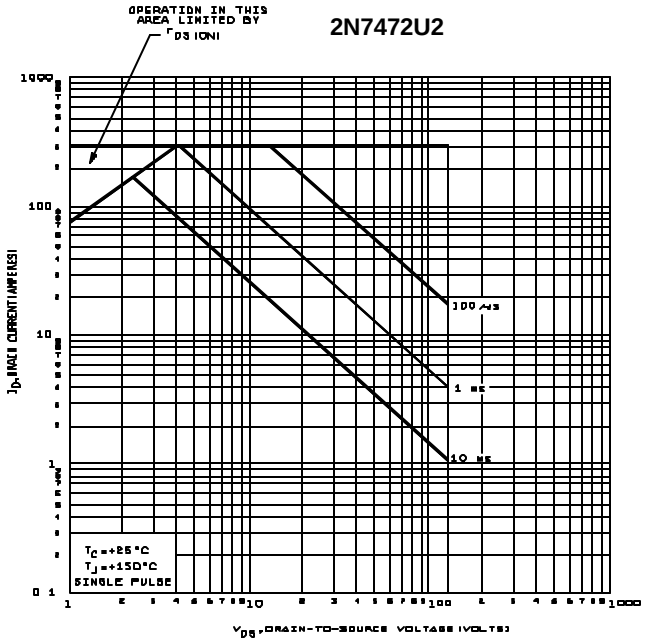

FIGURE 3. Safe operating area graph."

PAGE 15

FIGURE 4, delete and substitute:

"

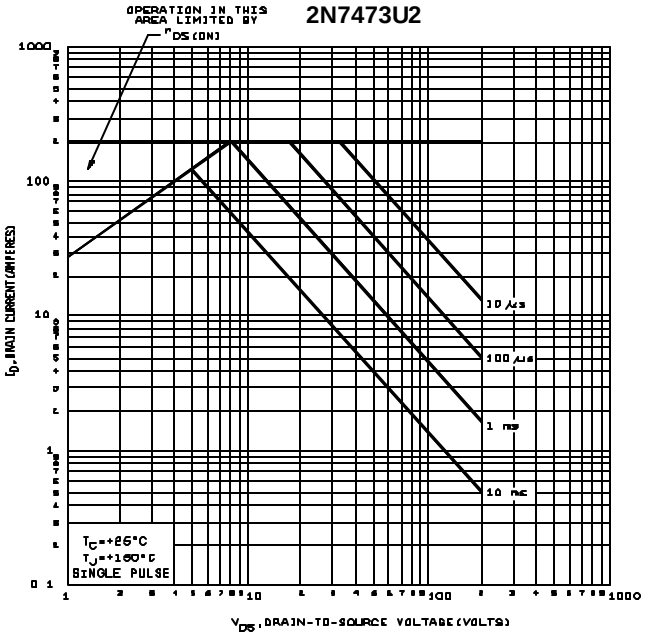

FIGURE 4. Safe operating area graph."

PAGE 15

FIGURE 5, delete and substitute:

"

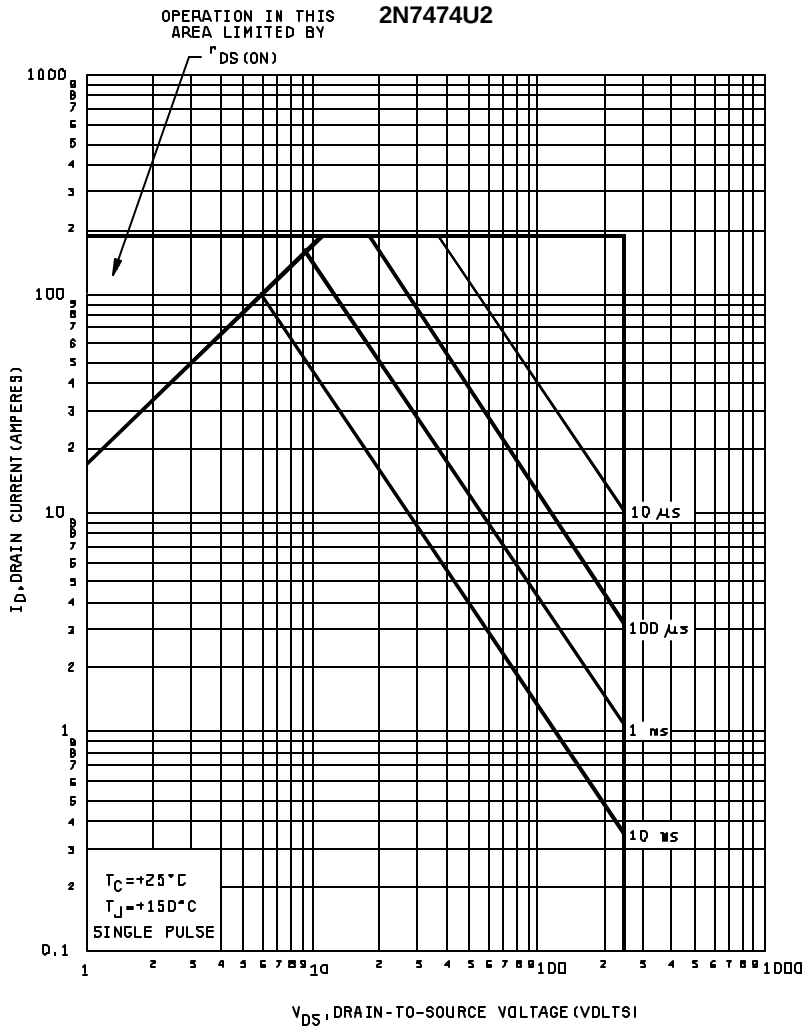

FIGURE 5. Safe operating area graph."

PAGE 17

* 4.5.3.b, delete "16.67 A" and substitute "13.88 A" (this corrects a change from amendment 1).

4.5.3.d, delete "15 V" and substitute "12 V".

Custodians:
Army - CR
Navy - EC
Air Force - 11
NASA - NA
DLA – CC

Preparing activity:
DLA - CC

(Project 5961-2512)